

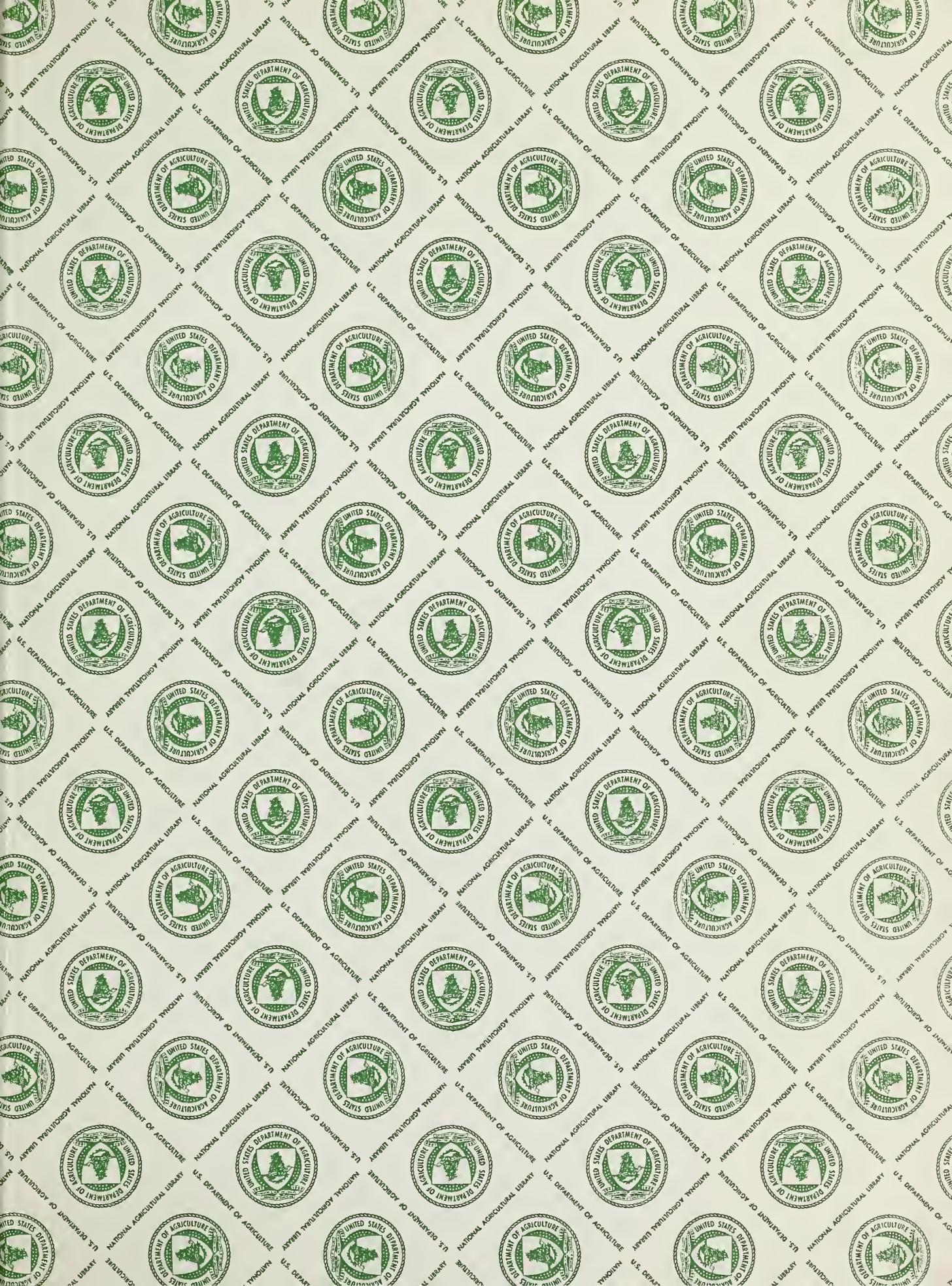
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JAN 19 1956

Checking Mountain Soil Moisture Under the Snow, an important factor in snowmelt runoff.

U. S. DEPARTMENT OF AGRICULTURE

Federal-State Cooperative  
Snow Surveys and Water Supply Forecasts  
for  
**OREGON**

SOIL CONSERVATION SERVICE  
UNITED STATES DEPARTMENT OF AGRICULTURE  
AND  
OREGON AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the Oregon State Engineer, U. S. Forest Service, National Park Service and other Federal, State and local organizations.

— AS OF —  
JAN. 1, 1956

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY  
AND WATER SUPPLY FORECAST REPORTS:

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrologist in Charge  
River Forecast Center  
U. S. Weather Bureau  
712 Federal Office Building  
Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate River District Office listed below:

Meteorologist in Charge.....Columbia River and  
Weather Bureau Office tributaries below Grand  
320 Custom House Coulee Dam, except the  
Portland 9, Oregon Snake River and tribu-  
taries.

Meteorologist in Charge.....Oregon and California  
Weather Bureau Airport Station Coast drainage, from and  
Box 1072 including Umpqua River  
Medford, Ore. Basin, southward to and  
including Klamath River  
and tributaries; the  
Great Basin in Oregon

State of Oregon

235904  
FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER SUPPLY FORECASTS  
FOR  
OREGON

Issued

January 9, 1956

Report Prepared  
by

W. T. Frost, Snow Survey Supervisor  
and  
Manes Barton, Assistant Water Forecaster

Soil Conservation Service  
and  
Oregon Agricultural Experiment Station  
209 S. W. 5th Avenue  
Portland 4, Oregon

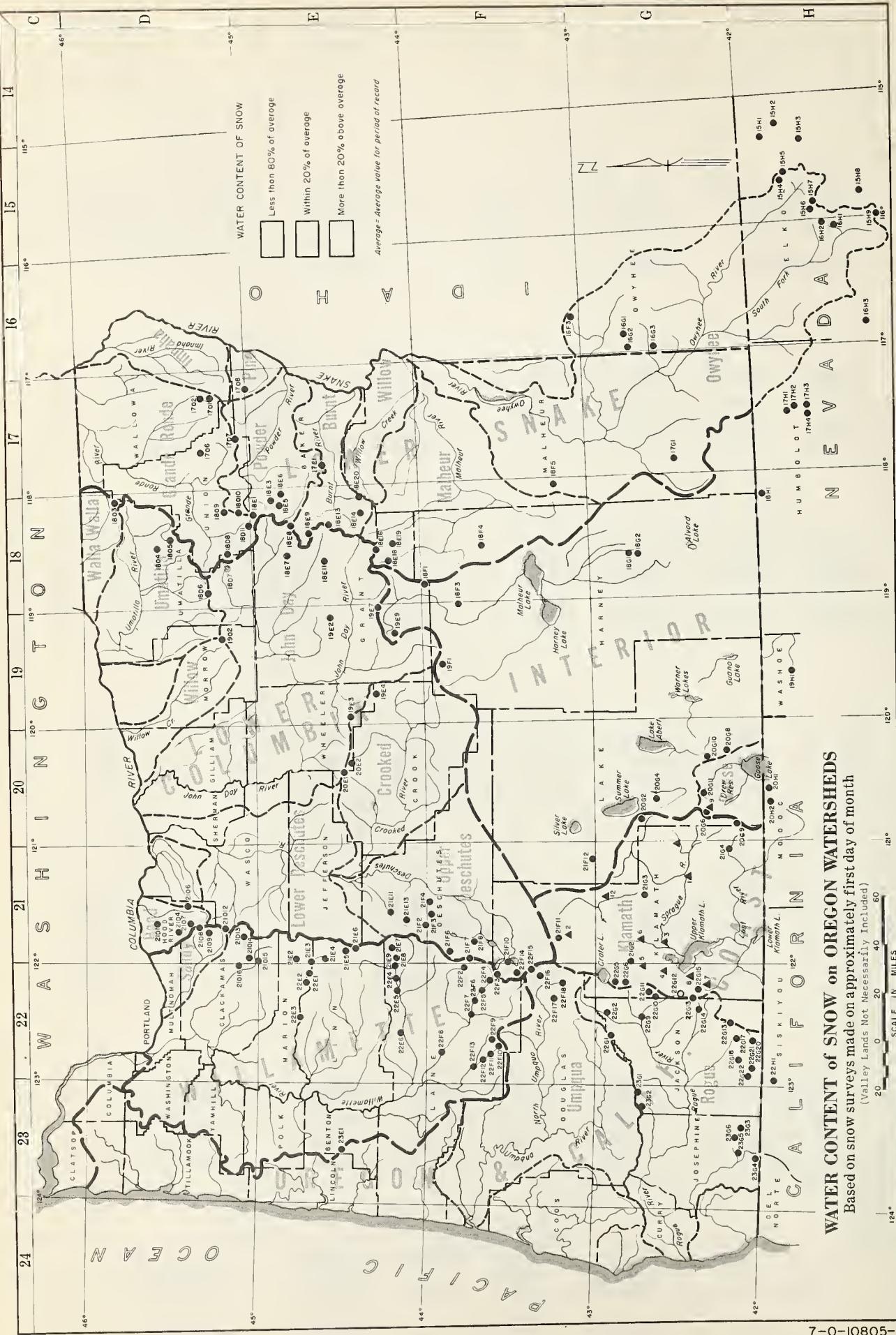
Issued by:

Harold E. Tower  
State Conservationist  
Soil Conservation Service

F. Earl Price  
Director  
Oregon Agricultural Experiment Station







## WATER CONTENT of SNOW on OREGON WATERSHEDS

Based on snow surveys made on approximately first day of month

(Valley Lands Not Necessarily Included)

PRELIMINARY WATER SUPPLY OUTLOOK  
FOR OREGON

1.

January 1, 1956

Outlook for Oregon's 1956 water supplies is "good" to "excellent" even though much early snow has been removed by warm rains and "chinooks".

SNOW-COVER: Water content of mountain snow-cover averages 140 percent normal on 38 measured snow courses as compared with last year when the snow-cover was only 78 percent of normal. Snow-cover is about equally above normal at stations both above and below the 5000 foot elevation.

Normally, about 35-40 percent of the total winter's snow is accumulated by January 1. This year nearly 50 percent of the normal total winter's snowfall has already accumulated.

SOIL MOISTURE: Soils in mountain watersheds, extremely dry at the beginning of the winter season, are now satisfactorily wetted or "primed" throughout the state.

RESERVOIR WATER: Stored water in 20 important Oregon irrigation reservoirs is now 18 percent greater than last year and only 3 percent less than the 15 year average (1938-52). However, storage in Malheur County reservoirs is only 35 percent of the 15 year average and not yet up to that of last year. Storage in Ochoco Reservoir above Prineville is also under that of last year but the total is nearly up to average. In other parts of the state the water storage situation is brighter. Willamette flood control reservoirs are all temporarily storing more than their normal amounts.

PRECIPITATION: State-wide precipitation<sup>1</sup> this fall (September through November, 1955) averages about 120 percent normal (1938-52) ranging from 80 percent normal in Southeastern Oregon to 141 percent normal in the Lower Columbia division. Statewide, December precipitation was about 194 percent normal.

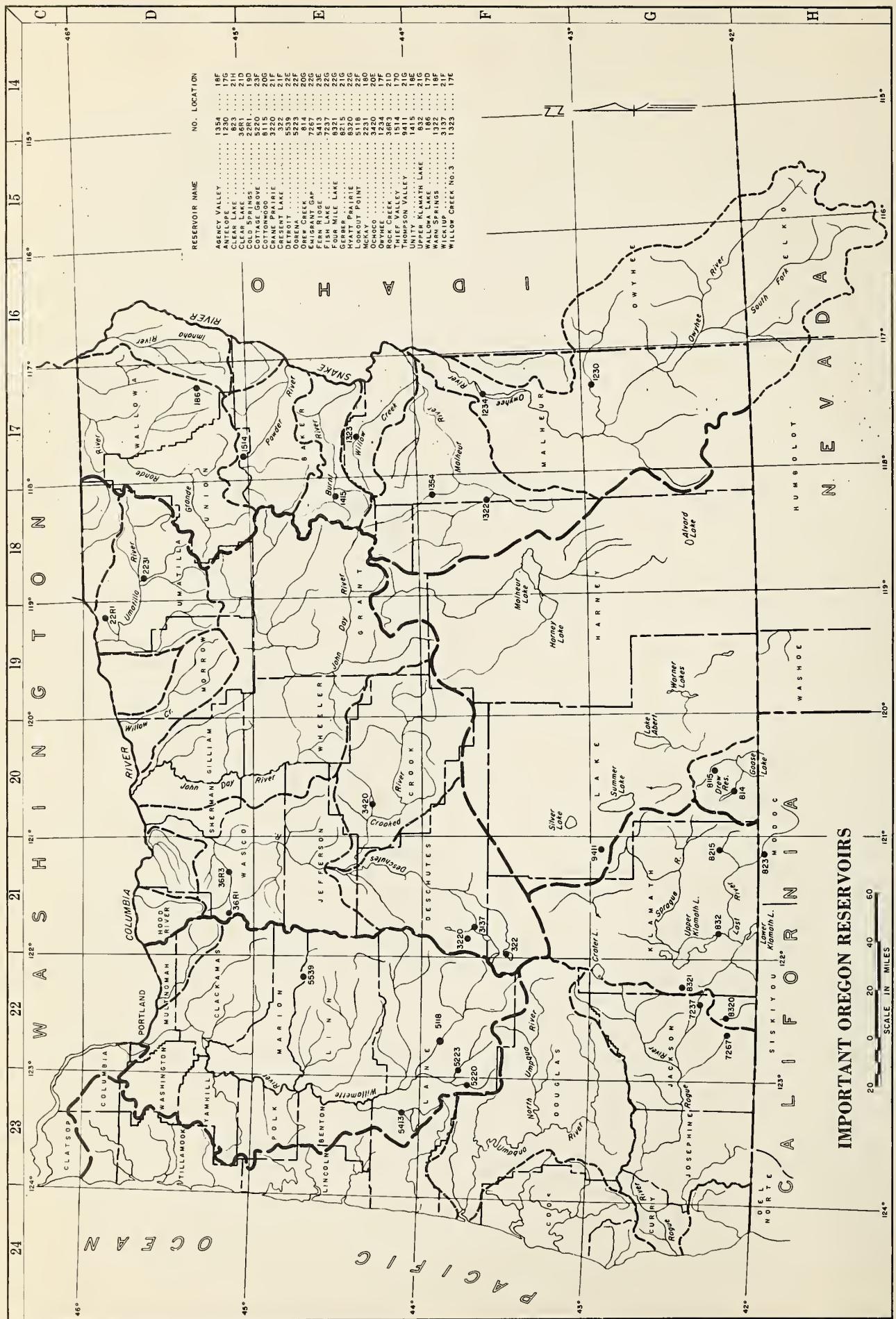
STREAMFLOW: Outlook for April-September streamflow is "good" to "excellent" even though some early snow has been "rained off". Preliminary forecasts will be published beginning February 1. Streamflow<sup>2</sup> October through December has been much above normal. December streamflow has exceeded all previous records in many localities.

<sup>1</sup>From preliminary data furnished by U. S. Weather Bureau, Portland, Oregon.

<sup>2</sup>From preliminary data furnished by U. S. Geological Survey, Portland, Oregon.







STATUS OF OREGON RESERVOIR STORAGE - JANUARY 1, 1956

BASIN and/or STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET				15-Yr.Avg. 1938-52			
			1956	1955	1954					
<u>UPPER COLUMBIA DRAINAGE</u>										
<u>Lower Snake in Oregon</u>										
Owyhee	Antelope Owyhee	36.5 715.0	N.R. 143.1	N.R. 156.0	N.R. 420.8	2.5 <sup>b</sup> 419.0 <sup>c</sup>				
Malheur	Warm Springs Agency Valley	191.0 60.0	22.3 12.6	18.9 17.0	102.0 17.1	63.8 29.9				
Burnt	Unity	25.2	11.7	2.7	2.2	7.4 <sup>c</sup>				
Grande Ronde	Wallowa Lake	40.9	27.8	17.8	33.2	19.2				
<u>LOWER COLUMBIA DRAINAGE</u>										
Umatilla	McKay Cold Springs	74.0 50.0	28.1 22.9	6.9 8.1	26.0 19.7	27.6 21.1				
Deschutes	Ochoco Crescent Lake Crane Prairie Wickiup	46.0 54.9 55.3 187.3	15.3 43.2 45.6 90.8	21.7 25.4 37.1 190.6	30.6 6.1 38.9 173.6	16.4 38.5 27.6 76.5 <sup>d</sup>				
Willamette	Cottage Grove Dorene Fern Ridge Detroit Lookout Pt.	30.1 <sup>a</sup> 70.5 <sup>a</sup> 94.2 <sup>a</sup> 340.0 <sup>a</sup> 350.0 <sup>a</sup>	10.2 29.9 84.3 164.0 230.8	1.0 8.9 2.2 25.0 29.0	0.2 0.2 0.1 57.0 --	0.5 <sup>d</sup> -- 4.5 <sup>e</sup> -- --				
<u>OREGON AND CALIFORNIA COAST DRAINAGE</u>										
Rogue	Fish Lake Fourmile Lake Emigrant Gap Hyatt Prairie	7.8 16.1 8.3 16.1	3.7 5.2 8.3 2.9	5.1 8.3 1.0 9.4	6.7 15.6 4.3 11.2	4.0 6.2 4.0 4.1				
Klamath	Upper Klamath Lk. Gerber Clear Lake	584.0 94.0 440.2	465.4 46.8 224.1	280.7 26.9 219.2	407.8 49.2 245.2	299.4 31.6 <sup>c</sup> 182.0 <sup>c</sup>				
<u>INTERIOR DRAINAGE</u>										
Goose Lake	Cottonwood Drew	4.1 62.5	2.3 45.7	0.1 23.2	0.3 36.2	0.0 <sup>f</sup> 32.6 <sup>g</sup>				

N.R.--No Report.

<sup>a</sup>Storage space reserved for flood control.<sup>b</sup>1942-43, 1949-50 and 1952 excepted.<sup>c</sup>1938 excepted.<sup>d</sup>1938-1942 excepted.<sup>e</sup>1938-43 excepted.<sup>f</sup>1942 and 1944 excepted.<sup>g</sup>1942 excepted.



COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

The following tabulation of Oregon stream basins presents the water content of the snow about January 1, 1956, as percent of the same date in 1955 and 1954 and average of record.

DRAINAGE	No. of Courses Averaged	Yrs. of Record	January 1, 1956 Water Content as percent of		
			1955	1954	Avg.
<u>UPPER COLUMBIA DRAINAGE (Lower Snake in Oregon)</u>					
Owyhee River	2	9-11	143	80	103
Malheur River	3	11-15	114	74	104
Burnt River	2	15	202	127	110
Powder River	3	13-15	173	134	148
Grande Ronde River	3	15	221	112	144
<u>LOWER COLUMBIA DRAINAGE</u>					
John Day River	4	15	210	115	142
Deschutes River	3	8-15	175	188	134
Willamette Valley Streams	8	5-15	150	150	138
Clackamas River	1	15	171	196	168
Santiam Rivers	3	14	156	202	146
McKenzie River	2	14	150	185	142
Middle Fork Willamette River	2	5-6	147	159	106
Coast Fork Willamette River	1	6	114	175	101
<u>OREGON AND CALIFORNIA COAST DRAINAGE</u>					
Umpqua River	1	6	114	175	101
Rogue River	8	10-15	260	190	148
Klamath Lake Basin	13	10-15	250	224	154
Williamson River	8	10-15	234	220	149
Sprague River	4	15	80	200	95
Gerber-Clear Lake Basin	1	15	88	165	97
<u>INTERIOR DRAINAGE</u>					
Goose Lake Basin	1	15	88	165	97
Harney Basin	3	11-15	96	82	80



OREGON SNOW SURVEYS - ABOUT JANUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS					
			Date of Survey	1956		Past Record		Water Content (In.) : 1955
				Snow Depth (In.)	Water Content (In.)			

U P P E R C O L U M B I A D R A I N A G E  
LOWER SNAKE IN OREGONOWYHEE RIVER

Bear Creek	15H1	7800	1-3	36	11.8	--	--	--	0
Upper Jack Creek	16H2	7250	1-4	14	3.6*	--	--	--	0
Fox Creek	15H2	6800	1-3	16	4.3	--	--	--	0
Lower Jack Creek	16H1	6800	1-4	T	T*	--	--	--	0
Rodeo Flat	15H6	6800	1-3	15	3.9*	--	--	--	0
Big Bend	15H4	6700	1-3	21	5.6*	--	--	--	0
Fry Canyon	15H7	6700	1-3	19	4.6*	--	--	--	0
Gold Creek	15H5	6600	1-3	12	2.9*	--	--	--	0
Silver City	16F3	6400	1-2	21	6.2	4.5	7.6	6.6**	9
South Mountain No. 2	16G1	6340	1-5	20	5.5	3.7	7.1	4.8**	11
Taylor Canyon	15H9	6200	1-4	14	4.1*	--	--	--	0
Tremewan Ranch	15H8	5700	1-3	6	1.4*	--	--	--	0
Cliffs	16G2	5200	Report	Delayed	--	--	--	--	0
Lowery Ranch	16G3	4800	Report	Delayed	--	--	--	--	0

MALHEUR RIVER

Blue Mtn. Springs	18E16	5900	12-29	29	8.1	5.0	--	6.3	19
Lake Creek	18E18	5120	12-30	16	5.9	--	--	--	3
Rock Spring	18F1	5100	12-29	9	2.0	0.8	2.7	2.5**	18
Stinking Water	18F4	4800	12-30	5	1.1	4.0	--	1.9**	11
Eldorado Pass	18E20	4600	12-30	4	0.9	--	--	--	0

BURNT RIVER

Dooley Mountain	17E1	5430	12-28	16	4.0	2.1	2.6	3.8**	17
Blue Mtn. Summit	18E13	5098	12-27	17	4.5	2.1	4.1	3.9	20
Tipton	18E9	5100	12-28	21	5.6	3.8	4.3	--	3
Eldorado Pass	18E20	4600	12-30	4	0.9	--	--	--	0

POWDER RIVER

Anthony Lake	18E1	7125	12-30	51	17.9	8.9	14.4	11.3**	16
Goodrich Lake	18E6	6775		Not surveyed			--	--	4
Dooley Mountain	17E1	5430	12-28	16	4.0	2.1	2.6	3.8**	17
Eilertson Meadows	18E3	5400	1-1	21	6.5	5.4	4.1	4.1**	13

\* Not located directly on this drainage area.

\*\* Average is for less than 15 years of record in the 1938-52 period but not less than 5 years.



## OREGON SNOW SURVEYS - ABOUT JANUARY 1, 1956

5.

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS						
			Date of Depth	1956		: Past Record		Water Content (In.)	Previous 1938-52 Yrs. of Avg.
				Snow Survey (In.)	Water Content (In.)	1955	1954		

GRANDE RONDE RIVER

Anthony Lake	18E1	7125	12-30	51	17.9	8.9	14.4	11.3**	16
Moss Spring	17D6	5850	1-3	44	13.9	6.6	14.3	9.9**	16
Beaver Reservoir	18D9	5340	12-28	25	6.2	1.7 <sup>b</sup>	5.2	5.2**	16
Tollgate	18D3	5070	12-29	36	12.4	6.7	--	--	1
Schoolmarm	18D7	4775	12-27	7	1.9	2.6	2.9	--	5
County Line	18D8	4775	12-27	12	3.7	2.7	2.9	--	4
Meacham	18D5	4300	12-29	12	3.7	4.6	--	--	2

LOWER COLUMBIA DRAINAGEWALLA WALLA RIVER

Tollgate	18D3	5070	12-29	36	12.4	6.7	--	--	1
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UMATILLA RIVER

Tollgate	18D3	5070	12-29	36	12.4	6.7	--	--	1
Meacham	18D5	4300	12-29	12	3.7	4.6	--	--	2
Emigrant Springs	18D4	3925	12-29	8	2.1	5.1	--	--	1

JOHN DAY RIVER

*Anthony Lake	18E1	7125	12-30	51	17.9	8.9	14.4	11.3**	16
Olive Lake	18E7	6000	1-5	40	10.5	3.5 <sup>b</sup>	10.1	7.4	19
Blue Mtn. Springs	18E16	5900	12-29	29	8.1	5.0	--	6.3	19
Blue Mtn. Summit	18E13	5098	12-27	17	4.5	2.1	4.1	3.9	20
Schoolmarm	18D7	4775	12-27	7	1.9	2.6	2.9	--	5
Tipton	18E9	5100	12-28	21	5.6	3.8	4.3	--	3

CROOKED RIVER

Marks Creek	20E1	4540	1-5	7	1.5	1.4	--	--	11
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DESCHUTES RIVER

Cascade Summit	22F3	4880	12-30	55	17.7	9.9	11.8	--	8
*Chemult	21F11	4760	12-31	27	8.3	3.7	1.9	4.4**	18
Hogg Pass	21E6	4755	12-30	78	25.6	15.9	13.8	18.0**	14

WILLAMETTE VALLEY STREAMSSANDY RIVER<sup>1</sup>

Phlox Point	21D8	5600	1-3	88	32.8	24.3	32.2	23.0**	16
Still Creek	21D9	3700	1-3	43	14.6	9.2	10.4	8.4**	15

\* Not directly located on this drainage area.

\*\* Average is for less than 15 years of record in the 1938-52 period but not

<sup>1</sup> less than 5 years

Not strictly a part of the Willamette drainage; these surveys are indicative of west slope conditions.



OREGON SNOW SURVEYS - ABOUT JANUARY 1, 1956

DRAINAGE BASIN AND SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS							
			Date of Survey	Snow Depth (In.)	Water Content: (In.)	Water Content (In.)	1956	1955	Past Record	Previous 1938-52 Yrs. of 1954 Avg. Record
WILLAMETTE VALLEY STREAMS (Cont'd.)										

CLACKAMAS RIVER

Peavine Ridge	21D14	3500	1-3	38	10.6	6.2	5.4	6.3	18
Timothy Meadows	21D17	3200	1-3	30	9.5	--	--	--	0
Big Bottom	21D15	2118		Not Surveyed		3.4	0.0	--	5
Lake Harriet	21D16	2045		Not Surveyed		0.9 <sup>a</sup>	0.0	--	5

Snow Line: About 1200'

SANTIAM RIVERS

Hogg Pass	21E6	4755	12-30	78	25.6	15.9	13.8	18.0**	14
Santiam Junction	21E5	3990	12-30	42	14.7	10.9	8.0	10.3**	14
Marion Forks	21E4	2730	12-30	28	9.1	4.8	2.7	5.5**	14
Whitewater Bridge	21E3	2175	12-30	12	3.7	2.0	0.0	--	6
Detroit (new town)	22E1	1500	12-30	0	0	T	0.0	--	6
Detroit Dam	22E2	1580	12-30	0	0	0.0	0.0	--	6
Mill City	22E3	826	12-30	0	0	0.0	0.0	--	5

Snow Line: About 1285'

MCKENZIE RIVER

McKenzie	21E7	4800		Not Surveyed	11.8	13.9 <sup>a</sup>	--	--	5
Hogg Pass	21E6	4755	12-30	78	25.6	15.9	13.8	18.0**	14
Santiam Junction	21E5	3990	12-30	42	14.7	10.9	8.0	10.3**	14
Dead Horse Grade	21E8	3800		Not Surveyed	4.0	7.8	--	--	5
White Branch Slide	21E9	2800		Not Surveyed	0.9 <sup>a</sup>	T	--	--	5
Lost Creek Ranch	22E4	1746		Not Surveyed	T	0.0	--	--	4
McKenzie Bridge	22E5	1372		Not Surveyed	T	0.0	--	--	5
Vida	22E6	800		Not Surveyed	0.0	0.0	--	--	5

Snow Line: Not Reported.

MIDDLE FORK WILLAMETTE RIVER

Cascade Summit	22F3	4880	12-30	55	17.7	9.9	11.8	--	8
Champion	22F9	4500	1-3	42	11.2	9.8	6.4	--	7
Salt Creek Falls	22F4	4000	12-30	28	8.8	7.4	6.4	--	6
Railroad Overpass	22F5	2750	12-30	6	1.0	1.0	T	--	6
McCredie Spring	22F6	2120	12-30	T	T	0.4	0.0	--	6
Oakridge	22F7	1310	12-30	0	0	T	0.0	--	6
Meridian Dam	22F8	750	12-30	0	0	0.0	0.0	--	4

Snow Line: About 2000'

<sup>a</sup>Partly estimated

\*\*Average is for less than 15 years of record in the 1938-52 period but not less than 5 years.



OREGON SNOW SURVEYS - ABOUT JANUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS						
			Date of Survey	Snow Depth (In.)	Water Content (In.)	1956 : Past Record			Previous Yrs. of Record
						Water Content (In.)	1955	1954	

WILLAMETTE VALLEY STREAMS (Cont'd.)

COAST FORK WILLAMETTE RIVER (Row River)

Champion	22F9	4500	1-3	42	11.2	9.8	6.4	- -	7
Golden Curry Creek	22F10	3136	1-3	9	1.6	1.4	0.0	- -	5
Weaver Creek	22F11	2440	1-3	0	0	0.3 <sup>a</sup>	0.0	- -	4
Lund Park	22F12	1740	1-3	0	0	T	0.0	- -	5
Layng Creek R.S.	22F13	1200	1-3	0	0	0.0	0.0	- -	5

Snow Line: About 2600'

OREGON AND CALIFORNIA COAST DRAINAGE

UMPOQUA RIVER

Diamond Lake	22F18	5315	Report delayed		9.7	5.6	8.7	26
Champion	22F9	4500	1-3	42	11.2	9.8	6.4	- -
N.Umpqua nr.Lake Cr.	22F16	4215	Report delayed		7.0	- -	- -	1

ROGUE RIVER

*Park Headquarters	22G5	6450	1-2	93	29.9	15.7	20.2	23.7**	10
Scragg Mountain	22H1	6200	Report delayed		6.2	3.9	10.1**	12	
*Annie Spring	22G6	6018	1-2	78	27.5	10.2	12.2	16.6**	15
*Fourmile Lake	22G12	6000	12-31	55	19.2	2.4	7.8	- -	2
Billie Creek Divide	22G13	5300	12-31	53	15.9	1.7	9.0	9.5**	15
Hobart Lake	22G17	5010	12-27	9	2.4	2.2	0.0	- -	6
*Hyatt Prairie Res.	22G16	4900	12-27	21	6.7	2.2	3.0	3.7**	18
Fish Lake	22G14	4865	12-31	34	10.4	0.9	5.1	5.7**	15
Siskiyou Summit	22G20	4630	1-2	11	2.5	1.1	T	3.1**	16
Silver Burn	22G2	3720	12-31	23	6.5	5.1	3.0	3.8	18
South Fork Canal	22G9	3500	12-31	4	0.6	1.5	0.0	1.2**	17

KLAMATH LAKE BASIN

Park Headquarters	22G5	6450	1-2	93	29.9	15.7	20.2	23.7**	10
Annie Spring	22G6	6018	1-2	78	27.5	10.2	12.2	16.6**	15
Four Mile Lake	22G12	6000	12-31	55	19.2	2.4	7.8	- -	2
*Quartz Mtn. (COPCO)	9	5504	Report delayed		- -	- -	- -	3.1**	23
Sun Mountain	21G2	5350	12-30	58	20.6	3.8	4.8	11.1**	16
*Quartz Mtn.	20G6	5320	1-2	18	2.8	3.2 <sup>b</sup>	1.7	2.9**	16
Billie Creek Divide	22G13	5300	12-31	53	15.9	1.7	9.0	9.5**	15
Taylor Butte	21G3	5100	1-3	21	5.1	- -	- -	- -	0
Lake of the Woods	22G15	4960	Not Surveyed			8.4	4.3	3.8	19

\*Not directly located on this drainage area.

\*\*Average is for less than 15 years of record in the 1938-52 period but not less than 5 years.

<sup>a</sup>Partly estimated.



OREGON SNOW SURVEYS - ABOUT JANUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS							
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1955	1954	Avg.	Past Record
KLAMATH LAKE BASIN (Cont'd.)										

Hyatt Prairie Res.	22G16	4900	12-27	21	6.7	2.2	3.0	3.7**	18
Gerber	21G4	4850	Report delayed			2.0	--	--	5
Bly 101 Ranch (COPCO)	10	4800	12-31	3	0.5	1.6	0.0	0.6**	28
Chemult	21F11	4760	12-31	27	8.3	3.7	1.9	4.4**	18
Yamsey (COPCO)	12	4600	Report delayed			2.2	T	1.4**	25
Kirk (COPCO)	6	4533	Report delayed			3.5	0.2	2.8	28
Beatty (COPCO)	1	4300	12-31	1	0.1	0.2	0.0	0.2	28
Crystal (COPCO)	4	4200	12-31	21	7.2	3.8	0.9	3.4	26
Harriman Lodge (COPCO)	8	4200	12-31	10	2.0	1.8	0.9	1.6	28
Chiloquin (COPCO)	3	4187	12-31	T	T	0.0	0.0	0.8	26
Fort Klamath (COPCO)	5	4150	12-31	3	0.8	1.0	0.0	1.0	29

GOOSE LAKE BASIN

Quartz Mtn. (COPCO)	9	5504	Report delayed			--	--	--	23
Quartz Mtn.	20G6	5320	1-2	18	2.8	3.2 <sup>b</sup>	1.7	2.9**	16

CHEWAUCAN RIVER

*Quartz Mtn.	20G6	5320	1-2	18	2.8	3.2 <sup>b</sup>	1.7	2.9**	16
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HARNEY BASIN

Idlewild Camp	18F3	5200	12-29	10	2.0	0.5	2.2	2.5**	19
Rock Spring	18F1	5100	12-29	9	2.0	0.8	2.7	2.5**	18
Stinking Water	18F4	4800	12-30	5	1.1	1.0	--	1.9**	11

(COPCO) - Water content determined by melting a measured sample (The California Oregon Power Co.'s Station).

\* Not directly located on this drainage area.

\*\*Average is for less than 15 years of record in the 1938-52 period but not less than 5 years.

<sup>b</sup> Telegraphic.



OREGON SNOW SURVEYS - DELAYED DATA

DRAINAGE BASIN and SNOW COURSE	No. or State	Elev.	SNOW COVER MEASUREMENTS			Past Record		
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.) Previous 1938-52 Yrs. of 1955 1954 Avg, Record		

N O V E M B E R 1, 1 9 5 5WILLAMETTE VALLEY STREAMS

## CLACKAMAS RIVER

Timothy Meadows 21D17 3200 11-1 10 1.0 New Snow Course

ROGUE RIVER AND KLAMATH LAKE BASIN

Fourmile Lake	22G12	6000	11-2	10	3.4	No previous record
Billie Creek Divide	22G13	5300	11-2	8	2.0	No previous record
Fish Lake	22G14	4865	11-2	5	1.7	No previous record

D E C E M B E R 1, 1 9 5 5WILLAMETTE VALLEY STREAMS

## CLACKAMAS RIVER

Peavine Ridge	21D14	3500	12-2	24	5.6	T 1.8 -- 7
Timothy Meadows	21D17	3200	12-2	22	4.4	New Snow Course
Big Bottom	21D15	2118	12-3	9	T	0.0 --- 1
Lake Harriet	21D16	2045	12-3	4	T	0.0 --- 1

ROGUE RIVER AND KLAMATH LAKE BASIN

Fourmile Lake	22G12	6000	11-28	20	6.4	No previous record
Billie Creek Divide	22G13	5300	11-28	24	6.0	No previous record
Fish Lake	22G14	4865	11-28	15	4.6	No previous record
Gerber	21G4	4850	12-7	14	3.0	--- --- 1
Silver Burn	22G2	3720	12-1	24	5.4	--- 1.6 -- 1
South Fork Canal	22G9	3500	12-1	7	1.5	--- 0.5 -- 1

D E C E M B E R 15, 1 9 5 5KLAMATH LAKE BASIN

Quartz Mtn. (COPCO) 9 5504 12-15 16 4.0 --- --- 1.7\*\* 21

\*\* Average is for less than 15 years of record in the 1938-52 period but not less than 5 years.



CURR. NT OREGON STREAMFLOW<sup>a</sup>

<u>BASIN, RIVER and STATION</u>	Streamflow in Thousands of acre feet			
	Oct. 1955 - Dec. 1955		Dec. 1955	
	Total	As percent of 1938-52 Average	Total	As percent of 1938-52 average
<u>UPPER COLUMBIA DRAINAGE (Lower Snake in Oregon)</u>				
Owyhee Res. net inflow	93.8	172	68.7	268
<u>LOWER COLUMBIA DRAINAGE</u>				
Umatilla R. nr. Umatilla	113.4	185	86.7	233
John Day R. at Service Cr.	315.4	224	251.2	312
Deschutes R. at Moody	1254.1	136	621.0	171
Hood R. and conduit nr. Hood R.	413.4	199	186.9	193
Willamette R. at Salem	10826.5	212	6702.4	251
Willamette R. at Albany	6348.0	210	4162.9	262
M.F. Willamette R. below North Fk.	1087.9	204	731.7	278
<u>OREGON AND CALIFORNIA COAST DRAINAGE</u>				
Umpqua R. nr. Elkton	3710.4	246	2956.4	335
Rogue R. at Raygold	913.8	189	670.2	266
Upper Klamath Lake net inflow	491.6	162	281.0	227

<sup>a</sup>Preliminary data supplied by: U. S. Geological Survey, Current Records Center, Portland, Oregon; The California Oregon Power Co., Medford, Oregon; and North and South Boards of Control, Owyhee Project, Nyssa, Oregon.



DRAINAGE DIVISIONS	FALL			
	Sept.-Oct.-Nov. 1955		December 1955	
	Observed	Departure <sup>b</sup>	Observed	Departure <sup>b</sup>
Southeastern	2.27	-0.57	2.71	+1.30
Blue Mountains	6.00	+0.63	4.19	+1.57
Wallowa Mountains	7.24	+1.32	3.48	+1.10
Lower Columbia	7.38	+2.15	4.51	+1.81
Upper Deschutes	3.74	-0.17	4.87	+2.75
Willamette Valley	21.88	+5.43	16.11	+7.62
Southwestern	8.33	+0.98	10.24	+5.67
South-Central	3.90	+0.26	5.03	+3.00

- Southeastern - Owyhee and lower Malheur drainages.
- Blue Mountains - Upper valleys of the Umatilla, John Day and Malheur, and the Powder, Burnt and Silvies drainages.
- Wallowa Mountains - Imnaha, Wallowa and Catherine drainages.
- Lower Columbia - Lower valleys of the Walla Walla, Umatilla, John Day and Deschutes, and the Hood and Sandy drainages.
- Upper Deschutes - Upper Deschutes and Crooked drainages.
- Willamette Valley - All Willamette drainages.
- Southwestern - Umpqua, Rogue and Williamson drainages.
- South-Central - Sprague, Lost and Interior Basin drainages.

a - Preliminary analysis by U. S. Weather Bureau.

b - Departure from 15 year (1938-52) drainage division average

Note - Precipitation shown in inches.



The following organizations cooperate in the Oregon snow survey work:

STATE

Idaho Cooperative Snow Surveys  
Nevada Cooperative Snow Surveys  
Oregon Agricultural Experiment Station  
Oregon State Engineer and corps of State Watermasters  
Oregon State Highway Engineers

FEDERAL

Department of Agriculture  
Forest Service  
Soil Conservation Service  
Department of Commerce  
Weather Bureau  
Department of the Interior  
Bonneville Power Administration  
Bureau of Reclamation  
Fish and Wildlife Service  
Geological Survey  
Indian Service  
National Park Service  
Department of National Defense  
Army Engineer Corps

PUBLIC UTILITIES

California-Pacific Utilities Company  
Portland General Electric Company  
The California Oregon Power Company

MUNICIPALITIES

City of Baker  
City of La Grande  
City of The Dalles  
City of Walla Walla

IRRIGATION DISTRICTS

Associated Ditch Companies  
Central Oregon Irrigation District  
Deschutes County Municipal Improvement District  
East Fork Irrigation District  
Grants Pass Irrigation District  
Jordan Valley Irrigation District  
Lakeview Water Users, Incorporated  
Medford Irrigation District  
Ochoco Irrigation District  
Rogue River Irrigation District  
Talent Irrigation District  
Vale-Oregon Irrigation District  
Warmsprings Irrigation District

PRIVATE ORGANIZATIONS

Amalgamated Sugar Company  
South Wasco Soil Conservation District  
The Crag Rats, Hood River, Oregon





Federal - State - Private  
COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"